APPENDIX 1

This set of documents must be completed and returned in your portfolio. Please complete the three header sections above. The following are the generic competencies that must be met by all Clinical Scientists via the ACS.

Refer to the Specific Competences document for guidance in completing this document.

**EXPERIENCE**: The candidate should be able to demonstrate that they have worked in an environment that has enabled the individual to receive training and gain experience relevant to the competences set out below.

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| 1 - SCIENTIFIC |
|  | Area of Competence | **Indicate section(s) in portfolio where competence is demonstrated** |
| Sci1 | Understand the science that underpins the specialty (modality) and the broader aspects of medicine and clinical practice. |  |
| Sci2 | Demonstrate a strong base of knowledge appropriate to the specialty and to the investigations and therapeutic options available. |  |
| Sci3 | Have experience of searching for knowledge, critical appraisal of information and integration into the knowledge base. |  |
| Sci4 | Apply knowledge to problems associated with the routine provision, and development, of the service. |  |
| Sci5 | Identify the clinical decision which the test/intervention will inform. |  |
| Sci6 | Make judgements on the effectiveness of procedures. |  |
| Sci7 | Apply the knowledge base to the specialty (modality) and to the range of procedures/investigations available |  |
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| 2 - CLINICAL |
|  | Area of Competence | **Indicate section(s) in portfolio where competence is demonstrated** |
| Clin1 | Understand the requirements of accuracy and precision of a procedure in the context of diagnosis, prognosis, monitoring and treatment and to use that information appropriately. |  |
| Clin2 | Provide interpretation of data and a diagnostic (therapeutic) opinion, including any further action to be taken by the individual directly responsible for the care of the patient. |  |
| Clin3 | Understand the wider clinical situation relevant to the service users presenting to the specialty. |  |
| Clin4 | Develop/devise an investigation strategy taking into account the complete clinical picture. |  |
| Clin5 | Understand the clinical applications of the specialty and the consequences of decisions made upon your actions/advice. |  |
| Clin6 | Demonstrate awareness of the evidence that underpins the use of the procedures employed by the service. |  |
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| 3 - TECHNICAL |
|  | Area of Competence | **Indicate section(s) in portfolio where competence is demonstrated** |
| Tech1 | Understand the principles associated with a range of techniques employed in the modality including the appropriate use of information, communication and digital technologies. |  |
| Tech2 | Have knowledge of the standards of practice expected from these techniques including positioning of patients for safe interventions. |  |
| Tech3 | Perform these techniques. |  |
| Tech4 | Solve problems that might arise during the routine application of these techniques (troubleshooting). |  |
| Tech5 | Understand the principles of quality control and quality assurance. |  |
| Tech6 | Use quality control and quality assurance techniques including restorative action when performance deteriorates. |  |
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| 4 - RESEARCH AND DEVELOPMENT |
|  | Area of Competence | **Indicate section(s) in portfolio where competence is demonstrated** |
| R&D1 | Read and critically appraise scientific literature and other sources of information. |  |
| R&D2 | Develop the aims and objectives associated with a project. |  |
| R&D3 | Develop an experimental protocol to meet the aims and objectives in a way that provides reliable and robust data (i.e. free of bias). |  |
| R&D4 | Perform the required experimental work to produce and present the results (including statistical analysis). |  |
| R&D5 | Recognise the value of research and critically appraise results in the light of existing knowledge and the hypothesis developed and to formulate further research questions. |  |
| R&D6 | Present data and provide a critical appraisal to an audience of peers – both spoken and written. |  |
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| 5 - COMMUNICATION |
|  | Area of Competence | **Indicate section(s) in portfolio where competence is demonstrated** |
| Com1 | Assess a situation and act accordingly when representing the specialty. |  |
| Com2 | Respond to enquiries regarding the service provided when dealing with clinical colleagues. |  |
| Com3 | Communicate with service users, carers and relatives, the public and other healthcare professionals appropriately, modifying means of communication depending on circumstance and its audience. |  |
| Com4 | Communicate the outcome of problem solving and research and development activities. |  |
| Com5 | Present scientific material to peers, colleagues or other healthcare professionals. |  |
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| **6 - PROBLEM SOLVING** |
|  | Area of Competence | **Indicate section(s) in portfolio where competence is demonstrated** |
| PS1 | Assess a situation. |  |
| PS2 | Determine the nature and severity of the problem. |  |
| PS3 | Call upon the required knowledge and experience to deal with the problem. |  |
| PS4 | Initiate resolution of the problem. |  |
| PS5 | Demonstrate personal initiative. |  |
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| **7 - PROFESSIONAL ACCOUNTABILITY** |
|  | Area of Competence | **Indicate section(s) in portfolio where competence is demonstrated** |
| Prof1 | Follow the Standards of Proficiency for Clinical Scientists as published by the Health & Care Professions Council. *(published September 2023)* |  |
| Prof2 | Take personal responsibility and justify your decisions. |  |
| Prof3 | Work within the legal and ethical requirements of the modality, recognise the importance of equality, diversity and inclusion, including these and other ethical aspects of practice and scientific research. |  |
| Prof4 | Practice safely and effectively within your abilities and recognise the limits of personal practice and identify when to seek advice. |  |
| Prof5 | Manage personal workload, prioritise tasks appropriately and look after your own health and wellbeing, seeking appropriate support where necessary. |  |
| Prof6 | Demonstrate competence in the principles of clinical governance including maintaining appropriate records, clinical audit and accreditation requirements relevant to the modality. This includes diversity and inclusion, confidentiality, informed consent and data security. |  |
| Prof7 | Contribute effectively to work undertaken as part of a multi-disciplinary team, working in partnership with service users, carers, colleagues and others. |  |
| Prof8 | Supervise others as appropriate to area of practice, demonstrating leadership qualities, behaviours and approaches, and engage with appraisals as part of staff management and development. |  |
| Prof9 | Understand the need and obligation for career-long self-directed learning, including appropriate use of technology, awareness of emerging technologies and new developments, and the importance of continuing professional development. |  |
| Prof10 | Establish and maintain a safe practice environment, adhering to Health and Safety requirements, including infection control, and recognise your role in health promotion and preventing ill health. |  |
| Prof11 | Work within the structure and organisation of the local service and demonstrate awareness of financial accountability, budgetary control and resource management and a general understanding of the way the modality is structured and practised in other locations within the UK. |  |
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